Qiang Yuan

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Experience

Webull Technologies, Saint Petersburg, FL   May 2024–Present

Production Engineer | MySQL, Python, Java, Grafana, Prometheus, ELK stack, GitLab
- Contributed to the development and configuration of **a Java-based monitoring and alerting platform** built with **Spring Boot** and deployed via **Docker**, enabling real-time anomaly detection in business traffic.
- Proactively monitored system-wide infrastructure by **Grafana** and **Prometheus**, analyzing traffic, performance, and service availability to maintain 99.99% uptime.
- Configured and optimized **Kubernetes**-based service nodes, designing autoscaling strategies to efficiently handle traffic fluctuations and enhance system resilience.
- Led incident response for production alerts, leveraging Prometheus metrics and ELK logs to identify root causes and restore services, reducing average downtime by 70% to under 10 minutes.
- Queried and corrected abnormal data entries in **MySQL** and **MongoDB**, ensuring data consistency and integrity across services.
- Maintained **FIX Engine** monitoring and recovery; diagnosed and resolved TCP connection issues and supported secure SFTP data transfers to ensure 100% reliable data exchange.
- Automated data validation and format conversions using **Python** scripts during system migrations and upgrades, reducing manual intervention and error rates by 98%.
- Diagnosed and resolved technical issues from user feedback, tracing problems through **ELK logs** and application code, reducing ticket resolution time by 80% and preventing recurrence through proactive fixes.

Novineer Inc, Daytona Beach, FL(Remote)   Sep 2023-Mar 2024

Cloud Engineer (Contract Role) | Python, Docker, Git, AWS SAM, IAM, CloudFormation, JavaScript, Microservices
- Orchestrated AWS Elastic Container Service (**ECS**) deployments, optimizing **Docker** container efficiency and scalability with task definitions and Auto Scaling Groups(ASG).
- Designed **RESTful API** architectures with Lucidchart, ensuring REST compliance and clear workflow visualization.
- Implemented 17 REST APIs into scalable serverless solutions using AWS Serverless Application Model (**SAM**) and **Lambda**, integrated with **API Gateway**, achieving sub-3-second response times.
- Implemented secure storage and retrieval of large files in Amazon **S3** using **pre-signed URLs**. Create and store various types of data within 5 NoSQL tables, implement **GSI** for efficient data retrieval in AWS **DynamoDB**.
- Authored **unit tests** and **integration tests** for 42 Lambda functions using **Pytest** and Moto, slashing post-deployment issues by 90%, build and maintain **CI/CD** pipeline via AWS SAM and **Github Actions**.
- Deployed frontend applications on AWS **Amplify** and streamlined API documentation in Postman for frontend teams.

Education

Master of Science, Dual Degree in Computer Science & Electrical and Computer Engineering   Jan 2021-Dec 2023
University of Florida, Gainesville, Florida   **GPA-3.60**
Relevant Courses: Computer Network, Virtual Computer, Machine Learning, Principle of Computer System Design, Analysis of Algorithms, Advanced System programing, Distributed Operating System Principles

Bachelor of Engineering in Software Engineering   Sep 2015-July 2019
Guangzhou University, Guangzhou, China   **GPA-3.44 (top25%)**
Relevant Courses: Operation System, Introduction to Artificial Intelligence, Analysis and Design of Algorithms Discrete Mathematics (I), Data Structure, Senior Net Development Technology

Skills

Programming Languages: Java, Python, C/C++, JavaScript, Linux Shell scripting
Tools & Frameworks: Git, AWS, Docker, Maven,React, Node.js, Anaconda, Pthread, Pytorch
DataBase: MySQL, Oracle, DynamoDB, SQLite, Redis